

“Pisces”<sup>1</sup>

Class **Myxini** (1 order)

Order **Myxiniformes** (1 family)

Family **Myxinidae** (5 genera, 76 species)

Class **Cephalaspidomorphi** (1 order)

Order **Petromyzontiformes** (1 family)

Family **Petromyzontidae** (9 genera, 43 species)

Class **Elasmobranchii** (11 orders)

Order **Hexanchiformes** (2 families)

Family **Hexanchidae** (3 genera, 4 species)

Family **Chlamydoselachidae** (1 genus, 2 species)

Order **Heterodontiformes** (1 family)

Family **Heterodontidae** (1 genus, 9 species)

Order **Orectolobiformes** (7 families)

Family **Rhincodontidae** (1 genus, 1 species)

Family **Parascylliidae** (2 genera, 8 species)

Family **Brachaeluridae** (1 genus, 2 species)

Family **Orectolobidae** (3 genera, 12 species)

Family **Hemiscylliidae** (2 genera, 17 species)

Family **Stegostomatidae** (1 genus, 1 species)

Family **Ginglymostomatidae** (3 genera, 3 species)

Order **Lamniformes** (7 families)

Family **Odontaspidae** (2 genera, 3 species)

Family **Mitsukurinidae** (1 genus, 1 species)

Family **Pseudocarchariidae** (1 genus, 1 species)

Family **Lamnidae** (3 genera, 5 species)

Family **Megachasmidae** (1 genus, 1 species)

Family **Cetorhinidae** (1 genus, 1 species)

Family **Alopiidae** (1 genus, 3 species)

Order **Carcharhiniformes** (8 families)

Family **Scyliorhinidae** (17 genera, 147 species)

Family **Proscylliidae** (3 genera, 7 species)

Family **Pseudotriakidae** (2 genera, 2 species)

Family **Leptochariidae** (1 genus, 1 species)

Family **Triakidae** (9 genera, 47 species)

Family **Hemigaleidae** (4 genera, 9 species)

Family **Carcharhinidae** (12 genera, 58 species)

Family **Sphyrnidae** (2 genera, 9 species)

Order **Squaliformes** (4 families)

Family **Dalatiidae** (18 genera, 77 species)

Family **Centrophoridae** (2 genera, 19 species)

Family **Squalidae** (2 genera, 29 species)

Family **Echinorhinidae** (1 genus, 2 species)

Order **Pristiophoriformes** (1 family)

- 
1. **BY** William N. Eschmeyer & Jon D. Fong (for full contact details, see the **Author names and addresses** after **Cited references**). The title of this contribution should be cited as “Pisces. In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness”.

Recent Pisces currently include 534 families, 5,017 genera and 31,958 species.

This is a summary of higher classification to the level of families based on: Eschmeyer, W.N. & Fricke, R. (eds.) (2011) Catalog of Fishes electronic version. Available online from: <http://research.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. The history of knowledge and discovery marine fishes were summarised in Eschmeyer et al. (2010).

- Family **Pristiophoridae** (2 genera, 7 species)
- Order **Squatiniiformes** (1 family)
  - Family **Squatinae** (1 genus, 22 species)
- Order **Pristiiformes** (1 family)
  - Family **Pristidae** (2 genera, 7 species)
- Order **Torpediniiformes** (4 families)
  - Family **Narkidae** (6 genera, 12 species)
  - Family **Narcinidae** (4 genera, 31 species)
  - Family **Hypnidae** (1 genus, 1 species)
  - Family **Torpedinidae** (1 genus, 23 species)
- Order **Rajiformes** (12 families)
  - Family **Rhinobatidae** (11 genera, 61 species)
  - Family **Arhynchobatidae** (12 genera, 94 species)
  - Family **Rajidae** (18 genera, 185 species)
  - Family **Anacanthobatidae** (2 genera, 13 species)
  - Family **Plesiobatidae** (1 genus, 1 species)
  - Family **Hexatrygonidae** (1 genus, 1 species)
  - Family **Dasyatidae** (8 genera, 87 species)
  - Family **Gymnuridae** (1 genus, 14 species)
  - Family **Myliobatidae** (7 genera, 44 species)
  - Family **Urolophidae** (2 genera, 30 species)
  - Family **Potamotrygonidae** (5 genera, 26 species)
  - Family **Urotrygonidae** (2 genera, 17 species)
- Class **Holocephali** (1 order)
  - Order **Chimaeriformes** (3 families)
    - Family **Callorhynchidae** (1 genus, 3 species)
    - Family **Chimaeridae** (2 genera, 39 species)
    - Family **Rhinochimaeridae** (3 genera, 8 species)
- Class **Actinopterygii** (46 orders)
  - Order **Polypteriformes** (1 family)
    - Family **Polypteridae** (2 genera, 12 species)
  - Order **Acipenseriformes** (2 families)
    - Family **Acipenseridae** (4 genera, 26 species)
    - Family **Polyodontidae** (2 genera, 2 species)
  - Order **Lepisosteiformes** (1 family)
    - Family **Lepisosteidae** (2 genera, 7 species)
  - Order **Amiiformes** (1 family)
    - Family **Amiidae** (1 genus, 1 species)
  - Order **Osteoglossiformes** (7 families)
    - Family **Osteoglossidae** (2 genera, 8 species)
    - Family **Arapaimidae** (2 genera, 2 species)
    - Family **Pantodontidae** (1 genus, 1 species)
    - Family **Hiodontidae** (1 genus, 2 species)
    - Family **Notopteridae** (4 genera, 10 species)
    - Family **Mormyridae** (21 genera, 195 species)
    - Family **Gymnarchidae** (1 genus, 1 species)
  - Order **Elopiformes** (2 families)
    - Family **Elopidae** (1 genus, 7 species)
    - Family **Megalopidae** (1 genus, 2 species)
  - Order **Albuliformes** (1 family)

- Family **Albulidae** (2 genera, 12 species)
- Order **Notacanthiformes** (2 families)
  - Family **Halosauridae** (3 genera, 16 species)
  - Family **Notacanthidae** (4 genera, 11 species)
- Order **Anguilliformes** (15 families)
  - Family **Anguillidae** (1 genus, 20 species)
  - Family **Heterenchelyidae** (2 genera, 8 species)
  - Family **Moringuidae** (2 genera, 15 species)
  - Family **Chlopsidae** (8 genera, 22 species)
  - Family **Myrocongridae** (1 genus, 5 species)
  - Family **Muraenidae** (16 genera, 202 species)
  - Family **Synaphobranchidae** (12 genera, 37 species)
  - Family **Ophichthidae** (58 genera, 313 species)
  - Family **Colocongridae** (2 genera, 10 species)
  - Family **Congridae** (30 genera, 194 species)
  - Family **Muraenesocidae** (6 genera, 15 species)
  - Family **Derichthyidae** (2 genera, 3 species)
  - Family **Nemichthyidae** (3 genera, 9 species)
  - Family **Serrivomeridae** (2 genera, 10 species)
  - Family **Nettastomatidae** (6 genera, 43 species)
- Order **Saccopharyngiformes** (4 families)
  - Family **Cyematidae** (2 genera, 2 species)
  - Family **Saccopharyngidae** (1 genus, 10 species)
  - Family **Eurypharyngidae** (1 genus, 1 species)
  - Family **Monognathidae** (1 genus, 15 species)
- Order **Clupeiformes** (6 families)
  - Family **Denticipitidae** (1 genus, 1 species)
  - Family **Clupeidae** (56 genera, 200 species)
  - Family **Engraulidae** (17 genera, 146 species)
  - Family **Chirocentridae** (1 genus, 2 species)
  - Family **Pristigasteridae** (8 genera, 38 species)
  - Family **Sundasalangidae** (1 genus, 7 species)
- Order **Gonorynchiformes** (4 families)
  - Family **Chanidae** (1 genus, 1 species)
  - Family **Gonorynchidae** (1 genus, 5 species)
  - Family **Kneriidae** (4 genera, 30 species)
  - Family **Phractolaemidae** (1 genus, 1 species)
- Order **Cypriniformes** (7 families)
  - Family **Cyprinidae** (352 genera, 2838 species)
  - Family **Psilorhynchidae** (1 genus, 18 species)
  - Family **Cobitidae** (28 genera, 236 species)
  - Family **Balitoridae** (72 genera, 793 species)
  - Family **Vaillantellidae** (1 genus, 3 species)
  - Family **Gyrinocheilidae** (1 genus, 3 species)
  - Family **Catostomidae** (13 genera, 78 species)
- Order **Characiformes** (19 families)
  - Family **Citharinidae** (3 genera, 8 species)
  - Family **Distichodontidae** (17 genera, 96 species)
  - Family **Alestidae** (21 genera, 120 species)
  - Family **Hepsetidae** (1 genus, 1 species)

- Family **Hemiodontidae** (5 genera, 29 species)
- Family **Parodontidae** (3 genera, 29 species)
- Family **Curimatidae** (8 genera, 101 species)
- Family **Prochilodontidae** (3 genera, 21 species)
- Family **Anostomidae** (14 genera, 145 species)
- Family **Chilodontidae** (2 genera, 8 species)
- Family **Erythrinidae** (3 genera, 16 species)
- Family **Lebiasinidae** (7 genera, 66 species)
- Family **Gasteropelecidae** (4 genera, 10 species)
- Family **Ctenoluciidae** (2 genera, 7 species)
- Family **Acestrorhynchidae** (1 genus, 14 species)
- Family **Cynodontidae** (5 genera, 14 species)
- Family **Serrasalminae** (16 genera, 86 species)
- Family **Characidae** (156 genera, 1126 species)
- Family **Crenuchidae** (12 genera, 82 species)
- Order **Siluriformes** (38 families)
  - Family **Diplomystidae** (2 genera, 6 species)
  - Family **Lacantuniidae** (1 genus, 1 species)
  - Family **Ictaluridae** (7 genera, 51 species)
  - Family **Bagridae** (20 genera, 213 species)
  - Family **Cranoglanididae** (1 genus, 5 species)
  - Family **Austroglanididae** (1 genus, 3 species)
  - Family **Siluridae** (12 genera, 99 species)
  - Family **Schilbeidae** (15 genera, 65 species)
  - Family **Pangasiidae** (4 genera, 28 species)
  - Family **Amblycipitidae** (4 genera, 34 species)
  - Family **Amphiliidae** (12 genera, 90 species)
  - Family **Akysidae** (5 genera, 56 species)
  - Family **Sisoridae** (18 genera, 196 species)
  - Family **Erethistidae** (6 genera, 34 species)
  - Family **Clariidae** (15 genera, 115 species)
  - Family **Heteropneustidae** (1 genus, 4 species)
  - Family **Claroteidae** (15 genera, 90 species)
  - Family **Chacidae** (1 genus, 3 species)
  - Family **Olyridae** (1 genus, 4 species)
  - Family **Malapteruridae** (2 genera, 19 species)
  - Family **Ariidae** (30 genera, 147 species)
  - Family **Anchariidae** (2 genera, 6 species)
  - Family **Plotosidae** (10 genera, 40 species)
  - Family **Mochokidae** (11 genera, 205 species)
  - Family **Doradidae** (31 genera, 89 species)
  - Family **Auchenipteridae** (20 genera, 106 species)
  - Family **Pimelodidae** (30 genera, 104 species)
  - Family **Pseudopimelodidae** (6 genera, 35 species)
  - Family **Heptapteridae** (24 genera, 202 species)
  - Family **Cetopsidae** (5 genera, 42 species)
  - Family **Hypophthalmidae** (1 genus, 4 species)
  - Family **Aspredinidae** (13 genera, 39 species)
  - Family **Nematogenyidae** (1 genus, 1 species)
  - Family **Trichomycteridae** (41 genera, 248 species)

- Family **Callichthyidae** (9 genera, 199 species)
- Family **Loricariidae** (101 genera, 834 species)
- Family **Scoloplacidae** (1 genus, 5 species)
- Family **Astroblepidae** (1 genus, 55 species)
- Order **Gymnotiformes** (5 families)
  - Family **Sternopygidae** (6 genera, 30 species)
  - Family **Apteronotidae** (15 genera, 84 species)
  - Family **Rhamphichthyidae** (3 genera, 14 species)
  - Family **Hypopomidae** (7 genera, 20 species)
  - Family **Gymnotidae** (2 genera, 37 species)
- Order **Esociformes** (2 families)
  - Family **Esocidae** (1 genus, 5 species)
  - Family **Umbridae** (3 genera, 7 species)
- Order **Osmeriformes** (13 families)
  - Family **Argentinidae** (2 genera, 27 species)
  - Family **Microstomatidae** (3 genera, 19 species)
  - Family **Bathylagidae** (8 genera, 23 species)
  - Family **Opisthoproctidae** (8 genera, 19 species)
  - Family **Alepocephalidae** (20 genera, 97 species)
  - Family **Platyproctidae** (13 genera, 40 species)
  - Family **Leptochilichthyidae** (1 genus, 3 species)
  - Family **Lepidogalaxiidae** (1 genus, 1 species)
  - Family **Osmeridae** (6 genera, 14 species)
  - Family **Plecoglossidae** (1 genus, 1 species)
  - Family **Salangidae** (6 genera, 20 species)
  - Family **Retropinnidae** (3 genera, 6 species)
  - Family **Galaxiidae** (7 genera, 50 species)
- Order **Salmoniformes** (1 family)
  - Family **Salmonidae** (11 genera, 213 species)
- Order **Stomiiformes** (4 families)
  - Family **Gonostomatidae** (8 genera, 33 species)
  - Family **Sternoptychidae** (10 genera, 75 species)
  - Family **Phosichthyidae** (7 genera, 24 species)
  - Family **Stomiidae** (28 genera, 292 species)
- Order **Ateleopodiformes** (1 family)
  - Family **Ateleopodidae** (4 genera, 13 species)
- Order **Aulopiformes** (17 families)
  - Family **Aulopidae** (3 genera, 11 species)
  - Family **Chlorophthalmidae** (2 genera, 19 species)
  - Family **Paraulopidae** (1 genus, 14 species)
  - Family **Ipnopidae** (6 genera, 33 species)
  - Family **Bathysauroididae** (1 genus, 1 species)
  - Family **Scopelarchidae** (4 genera, 18 species)
  - Family **Notosudidae** (3 genera, 17 species)
  - Family **Giganturidae** (1 genus, 2 species)
  - Family **Synodontidae** (4 genera, 68 species)
  - Family **Bathysauridae** (1 genus, 2 species)
  - Family **Paralepididae** (12 genera, 59 species)
  - Family **Anotopteridae** (1 genus, 3 species)
  - Family **Evermannellidae** (3 genera, 8 species)

- Family **Omosudidae** (1 genus, 1 species)
- Family **Alepisauridae** (1 genus, 2 species)
- Family **Pseudotriconotidae** (1 genus, 2 species)
- Order **Myctophiformes** (2 families)
  - Family **Neoscopelidae** (3 genera, 6 species)
  - Family **Myctophidae** (33 genera, 250 species)
- Order **Lampriformes** (7 families)
  - Family **Lampridae** (1 genus, 2 species)
  - Family **Veliferidae** (2 genera, 2 species)
  - Family **Lophotidae** (2 genera, 4 species)
  - Family **Radiicephalidae** (1 genus, 1 species)
  - Family **Trachipteridae** (3 genera, 11 species)
  - Family **Regalecidae** (2 genera, 5 species)
  - Family **Stylephoridae** (1 genus, 1 species)
- Order **Polymixiiformes** (1 family)
  - Family **Polymixiidae** (1 genus, 10 species)
- Order **Percopsiformes** (3 families)
  - Family **Percopsidae** (1 genus, 2 species)
  - Family **Aphredoderidae** (1 genus, 1 species)
  - Family **Amblyopsidae** (6 genera, 6 species)
- Order **Gadiformes** (10 families)
  - Family **Muraenolepididae** (2 genera, 8 species)
  - Family **Bregmacerotidae** (1 genus, 14 species)
  - Family **Euclichthyidae** (1 genus, 1 species)
  - Family **Macrouridae** (35 genera, 397 species)
  - Family **Moridae** (18 genera, 107 species)
  - Family **Melanonidae** (1 genus, 2 species)
  - Family **Gadidae** (12 genera, 21 species)
  - Family **Lotidae** (6 genera, 21 species)
  - Family **Phycidae** (2 genera, 11 species)
  - Family **Merlucciidae** (5 genera, 24 species)
- Order **Ophidiiformes** (5 families)
  - Family **Ophidiidae** (52 genera, 249 species)
  - Family **Carapidae** (8 genera, 34 species)
  - Family **Bythitidae** (48 genera, 197 species)
  - Family **Aphyonidae** (6 genera, 23 species)
  - Family **Parabrotulidae** (2 genera, 3 species)
- Order **Batrachoidiformes** (1 family)
  - Family **Batrachoididae** (23 genera, 80 species)
- Order **Lophiiformes** (18 families)
  - Family **Lophiidae** (4 genera, 24 species)
  - Family **Antennariidae** (13 genera, 47 species)
  - Family **Tetrabrachiidae** (2 genera, 2 species)
  - Family **Lophichthyidae** (1 genus, 1 species)
  - Family **Brachionichthyidae** (5 genera, 14 species)
  - Family **Chaunacidae** (2 genera, 15 species)
  - Family **Ogcocephalidae** (10 genera, 70 species)
  - Family **Caulophryniidae** (2 genera, 5 species)
  - Family **Neoceratiidae** (1 genus, 1 species)
  - Family **Melanocetidae** (1 genus, 6 species)



- Family **Himantolophidae** (1 genus, 21 species)
- Family **Diceratiidae** (2 genera, 6 species)
- Family **Oneirodidae** (16 genera, 64 species)
- Family **Thaumichthyidae** (2 genera, 8 species)
- Family **Centrophrynidae** (1 genus, 1 species)
- Family **Ceratiidae** (2 genera, 4 species)
- Family **Gigantactinidae** (2 genera, 22 species)
- Family **Linophrynidae** (5 genera, 27 species)
- Order **Gobiesociformes** (1 family)
  - Family **Gobiesocidae** (47 genera, 158 species)
- Order **Atheriniformes** (10 families)
  - Family **Atherinidae** (14 genera, 68 species)
  - Family **Bedotiidae** (2 genera, 16 species)
  - Family **Melanotaeniidae** (7 genera, 76 species)
  - Family **Pseudomugilidae** (4 genera, 18 species)
  - Family **Atherinopsidae** (13 genera, 109 species)
  - Family **Notocheiridae** (1 genus, 1 species)
  - Family **Isonidae** (1 genus, 5 species)
  - Family **Telmatherinidae** (5 genera, 18 species)
  - Family **Dentatherinidae** (1 genus, 1 species)
  - Family **Phallostethidae** (4 genera, 21 species)
- Order **Cyprinodontiformes** (10 families)
  - Family **Aplocheilidae** (2 genera, 14 species)
  - Family **Nothobranchiidae** (15 genera, 248 species)
  - Family **Rivulidae** (30 genera, 349 species)
  - Family **Profundulidae** (1 genus, 7 species)
  - Family **Fundulidae** (5 genera, 43 species)
  - Family **Valenciidae** (1 genus, 2 species)
  - Family **Goodeidae** (18 genera, 49 species)
  - Family **Poeciliidae** (41 genera, 343 species)
  - Family **Cyprinodontidae** (9 genera, 121 species)
  - Family **Anablepidae** (3 genera, 17 species)
- Order **Beloniformes** (5 families)
  - Family **Scomberesocidae** (2 genera, 5 species)
  - Family **Belonidae** (10 genera, 45 species)
  - Family **Hemiramphidae** (13 genera, 115 species)
  - Family **Exocoetidae** (7 genera, 65 species)
  - Family **Adrianichthyidae** (2 genera, 32 species)
- Order **Stephanoberyciformes** (4 families)
  - Family **Stephanoberycidae** (4 genera, 4 species)
  - Family **Hispidoberycidae** (1 genus, 1 species)
  - Family **Melamphaidae** (5 genera, 57 species)
  - Family **Gibberichthyidae** (1 genus, 2 species)
- Order **Beryciformes** (7 families)
  - Family **Monocentridae** (2 genera, 4 species)
  - Family **Trachichthyidae** (8 genera, 47 species)
  - Family **Anomalopidae** (6 genera, 8 species)
  - Family **Diretmidae** (3 genera, 4 species)
  - Family **Anoplogastridae** (1 genus, 2 species)
  - Family **Berycidae** (2 genera, 10 species)

- Family **Holocentridae** (8 genera, 84 species)
- Order **Cetomimiformes** (5 families)
  - Family **Rondeletiidae** (1 genus, 2 species)
  - Family **Barbourisiidae** (1 genus, 1 species)
  - Family **Cetomimidae** (16 genera, 30 species)
- Order **Zeiformes** (6 families)
  - Family **Cyttidae** (1 genus, 3 species)
  - Family **Oreosomatidae** (4 genera, 10 species)
  - Family **Parazenidae** (3 genera, 4 species)
  - Family **Zenionidae** (3 genera, 7 species)
  - Family **Grammicolepididae** (3 genera, 3 species)
  - Family **Zeidae** (2 genera, 6 species)
- Order **Incertae sedis** (1 family)
  - Family **Elassomatidae** (1 genus, 7 species)
- Order **Gasterosteiformes** (5 families)
  - Family **Hypoptychidae** (2 genera, 2 species)
  - Family **Gasterosteidae** (5 genera, 18 species)
  - Family **Aulorhynchidae** (1 genus, 1 species)
  - Family **Indostomidae** (1 genus, 3 species)
  - Family **Pegasidae** (2 genera, 5 species)
- Order **Syngnathiformes** (5 families)
  - Family **Aulostomidae** (1 genus, 3 species)
  - Family **Fistulariidae** (1 genus, 4 species)
  - Family **Centriscidae** (5 genera, 12 species)
  - Family **Solenostomidae** (1 genus, 6 species)
  - Family **Syngnathidae** (56 genera, 340 species)
- Order **Synbranchiformes** (3 families)
  - Family **Synbranchidae** (4 genera, 23 species)
  - Family **Mastacembelidae** (3 genera, 86 species)
  - Family **Chaudhuriidae** (6 genera, 10 species)
- Order **Scorpaeniformes** (7 suborders)
  - Suborder **Scorpaenoidei** (13 families)
    - Family **Sebastidae** (7 genera, 132 species)
    - Family **Setarchidae** (3 genera, 6 species)
    - Family **Neosebastidae** (2 genera, 18 species)
    - Family **Scorpaenidae** (25 genera, 216 species)
    - Family **Apistidae** (3 genera, 3 species)
    - Family **Tetrarogidae** (17 genera, 40 species)
    - Family **Synanceiidae** (9 genera, 35 species)
    - Family **Eschmeyeridae** (1 genus, 1 species)
    - Family **Aploactinidae** (17 genera, 47 species)
    - Family **Pataecidae** (3 genera, 3 species)
    - Family **Gnathanacanthidae** (1 genus, 1 species)
    - Family **Congiopodidae** (4 genera, 8 species)
  - Suborder **Dactylopteroidei** (1 family)
    - Family **Dactylopteridae** (2 genera, 7 species)
  - Suborder **Platycephaloidei** (7 families)
    - Family **Plectrogeniidae** (1 genus, 2 species)
    - Family **Parabembridae** (1 genus, 2 species)
    - Family **Bembridae** (4 genera, 9 species)



- Family **Triglidae** (10 genera, 122 species)
- Family **Peristediidae** (6 genera, 49 species)
- Family **Hoplichthyidae** (1 genus, 11 species)
- Family **Platycephalidae** (18 genera, 74 species)
- Suborder **Anoplopomatoidei** (1 family)
  - Family **Anoplopomatidae** (2 genera, 2 species)
- Suborder **Hexagrammoidei** (1 family)
  - Family **Hexagrammidae** (5 genera, 12 species)
- Suborder **Normanichthyoidei** (1 family)
  - Family **Normanichthyidae** (1 genus, 1 species)
- Suborder **Cottoidei** (12 families)
  - Family **Rhamphocottidae** (1 genus, 1 species)
  - Family **Ereuniidae** (2 genera, 3 species)
  - Family **Bathylutichthyidae** (1 genus, 1 species)
  - Family **Cottidae** (63 genera, 250 species)
  - Family **Cottocomephoridae** (4 genera, 9 species)
  - Family **Comephoridae** (1 genus, 2 species)
  - Family **Abyssocottidae** (7 genera, 24 species)
  - Family **Hemitriptoridae** (3 genera, 8 species)
  - Family **Psychrolutidae** (9 genera, 40 species)
  - Family **Agonidae** (21 genera, 46 species)
  - Family **Cyclopteridae** (6 genera, 27 species)
  - Family **Liparidae** (29 genera, 376 species)
- Order **Perciformes** (21 suborders)
  - Suborder **Percoidae** (84 families)
    - Family **Centropomidae** (1 genus, 12 species)
    - Family **Ambassidae** (8 genera, 48 species)
    - Family **Percichthyidae** (11 genera, 36 species)
    - Family **Perciliidae** (1 genus, 2 species)
    - Family **Howellidae** (3 genera, 9 species)
    - Family **Lateolabracidae** (1 genus, 2 species)
    - Family **Latidae** (3 genera, 11 species)
    - Family **Acropomatidae** (8 genera, 32 species)
    - Family **Moronidae** (2 genera, 6 species)
    - Family **Polyprionidae** (2 genera, 4 species)
    - Family **Dinopercidae** (2 genera, 2 species)
    - Family **Serranidae** (73 genera, 522 species)
    - Family **Ostracoberycidae** (1 genus, 3 species)
    - Family **Symphysanodontidae** (1 genus, 12 species)
    - Family **Centrogyeniidae** (1 genus, 1 species)
    - Family **Pseudochromidae** (24 genera, 143 species)
    - Family **Grammatidae** (2 genera, 13 species)
    - Family **Callanthiidae** (2 genera, 14 species)
    - Family **Plesiopidae** (12 genera, 49 species)
    - Family **Opistognathidae** (3 genera, 79 species)
    - Family **Terapontidae** (15 genera, 53 species)
    - Family **Banjosidae** (1 genus, 1 species)
    - Family **Kuhliidae** (1 genus, 12 species)
    - Family **Centrarchidae** (8 genera, 33 species)
    - Family **Percidae** (10 genera, 226 species)

Family **Priacanthidae** (4 genera, 18 species)  
Family **Apogonidae** (29 genera, 334 species)  
Family **Epigonidae** (7 genera, 37 species)  
Family **Dinolestidae** (1 genus, 1 species)  
Family **Sillaginidae** (3 genera, 34 species)  
Family **Malacanthidae** (5 genera, 44 species)  
Family **Lactariidae** (1 genus, 1 species)  
Family **Scombroptidae** (1 genus, 3 species)  
Family **Pomatomidae** (1 genus, 1 species)  
Family **Rachycentridae** (1 genus, 1 species)  
Family **Echeneidae** (3 genera, 8 species)  
Family **Carangidae** (30 genera, 147 species)  
Family **Nematistiidae** (1 genus, 1 species)  
Family **Coryphaenidae** (1 genus, 3 species)  
Family **Leiognathidae** (9 genera, 49 species)  
Family **Bramidae** (7 genera, 20 species)  
Family **Caristiidae** (3 genera, 6 species)  
Family **Arripidae** (1 genus, 4 species)  
Family **Emmelichthyidae** (3 genera, 16 species)  
Family **Lutjanidae** (17 genera, 108 species)  
Family **Caesionidae** (4 genera, 22 species)  
Family **Lobotidae** (1 genus, 2 species)  
Family **Datnioididae** (1 genus, 5 species)  
Family **Hapalogenyidae** (1 genus, 7 species)  
Family **Gerreidae** (7 genera, 51 species)  
Family **Haemulidae** (19 genera, 132 species)  
Family **Sparidae** (36 genera, 130 species)  
Family **Centracanthidae** (2 genera, 9 species)  
Family **Lethrinidae** (5 genera, 41 species)  
Family **Nemipteridae** (5 genera, 66 species)  
Family **Sciaenidae** (66 genera, 290 species)  
Family **Polynemidae** (8 genera, 42 species)  
Family **Mullidae** (6 genera, 79 species)  
Family **Pempheridae** (2 genera, 26 species)  
Family **Glaucosomatidae** (1 genus, 4 species)  
Family **Leptobramidae** (1 genus, 1 species)  
Family **Bathyclupeidae** (1 genus, 7 species)  
Family **Toxotidae** (1 genus, 7 species)  
Family **Dichistiidae** (1 genus, 2 species)  
Family **Kyphosidae** (14 genera, 51 species)  
Family **Parascorpididae** (1 genus, 1 species)  
Family **Drepaneidae** (1 genus, 3 species)  
Family **Monodactylidae** (2 genera, 6 species)  
Family **Chaetodontidae** (12 genera, 130 species)  
Family **Pomacanthidae** (8 genera, 87 species)  
Family **Enoplosidae** (1 genus, 1 species)  
Family **Pentacerotidae** (8 genera, 13 species)  
Family **Polycentridae** (4 genera, 4 species)  
Family **Nandidae** (2 genera, 9 species)  
Family **Badidae** (2 genera, 18 species)

- Family **Oplegnathidae** (1 genus, 7 species)
- Family **Cirrhitidae** (12 genera, 34 species)
- Family **Chironemidae** (1 genus, 6 species)
- Family **Aplodactylidae** (1 genus, 5 species)
- Family **Cheilodactylidae** (4 genera, 27 species)
- Family **Latridae** (3 genera, 7 species)
- Family **Cepolidae** (5 genera, 22 species)
- Suborder **Mugiloidei** (1 family)
  - Family **Mugilidae** (20 genera, 72 species)
- Suborder **Labroidei** (6 families)
  - Family **Cichlidae** (221 genera, 1606 species)
  - Family **Embiotocidae** (13 genera, 23 species)
  - Family **Pomacentridae** (28 genera, 385 species)
  - Family **Labridae** (70 genera, 509 species)
  - Family **Odacidae** (6 genera, 12 species)
  - Family **Scaridae** (10 genera, 99 species)
- Suborder **Zoarcoidei** (9 families)
  - Family **Bathymasteridae** (3 genera, 7 species)
  - Family **Zoarcidae** (59 genera, 297 species)
  - Family **Stichaeidae** (34 genera, 67 species)
  - Family **Cryptacanthodidae** (1 genus, 4 species)
  - Family **Pholidae** (3 genera, 15 species)
  - Family **Anarhichadidae** (2 genera, 5 species)
  - Family **Ptilichthyidae** (1 genus, 1 species)
  - Family **Zaproridae** (1 genus, 1 species)
  - Family **Scytalinidae** (1 genus, 1 species)
- Suborder **Notothenoidei** (8 families)
  - Family **Bovichtidae** (3 genera, 11 species)
  - Family **Pseudaphritidae** (1 genus, 1 species)
  - Family **Eleginopsidae** (1 genus, 1 species)
  - Family **Nototheniidae** (16 genera, 59 species)
  - Family **Harpagiferidae** (1 genus, 12 species)
  - Family **Artedidraconidae** (4 genera, 28 species)
  - Family **Bathydraconidae** (11 genera, 18 species)
  - Family **Channichthyidae** (11 genera, 25 species)
- Suborder **Trachinoidei** (12 families)
  - Family **Chiasmodontidae** (4 genera, 32 species)
  - Family **Champsodontidae** (1 genus, 13 species)
  - Family **Trichodontidae** (2 genera, 2 species)
  - Family **Ammodytidae** (7 genera, 26 species)
  - Family **Trachinidae** (2 genera, 9 species)
  - Family **Uranoscopidae** (8 genera, 51 species)
  - Family **Trichonotidae** (1 genus, 9 species)
  - Family **Creediidae** (8 genera, 17 species)
  - Family **Leptoscopidae** (3 genera, 5 species)
  - Family **Percophidae** (11 genera, 48 species)
  - Family **Pinguipedidae** (7 genera, 79 species)
  - Family **Cheimarrichthyidae** (1 genus, 1 species)
- Suborder **Pholidichthyoidei** (1 family)
  - Family **Pholidichthyidae** (1 genus, 2 species)

- Suborder **Blennioidei** (6 families)
  - Family **Tripterygiidae** (29 genera, 166 species)
  - Family **Labrisomidae** (14 genera, 118 species)
  - Family **Clinidae** (26 genera, 84 species)
  - Family **Chaenopsidae** (14 genera, 97 species)
  - Family **Dactyloscopidae** (9 genera, 48 species)
  - Family **Blenniidae** (57 genera, 398 species)
- Suborder **Icosteioidei** (1 family)
  - Family **Icosteidae** (1 genus, 1 species)
- Suborder **Callionymoidei** (2 families)
  - Family **Callionymidae** (19 genera, 187 species)
  - Family **Draconettidae** (2 genera, 14 species)
- Suborder **Gobioidei** (8 families)
  - Family **Rhyacichthyidae** (2 genera, 3 species)
  - Family **Odontobutidae** (7 genera, 22 species)
  - Family **Eleotridae** (34 genera, 172 species)
  - Family **Gobiidae** (248 genera, 1630 species)
  - Family **Kraemeriidae** (2 genera, 9 species)
  - Family **Microdesmidae** (12 genera, 86 species)
  - Family **Xenisthmidae** (5 genera, 13 species)
  - Family **Schindleriidae** (1 genus, 3 species)
- Suborder **Kurtoidei** (1 family)
  - Family **Kurtidae** (1 genus, 2 species)
- Suborder **Acanthuroidei** (6 families)
  - Family **Ephippidae** (8 genera, 15 species)
  - Family **Scatophagidae** (2 genera, 4 species)
  - Family **Siganidae** (1 genus, 32 species)
  - Family **Luvaridae** (1 genus, 1 species)
  - Family **Zanclidae** (1 genus, 1 species)
  - Family **Acanthuridae** (6 genera, 84 species)
- Suborder **Scombrolabracoidei** (1 family)
  - Family **Scombrolabracidae** (1 genus, 1 species)
- Suborder **Sphyraenoidei** (1 family)
  - Family **Sphyraenidae** (1 genus, 29 species)
- Suborder **Scombroidei** (3 families)
  - Family **Gempylidae** (16 genera, 25 species)
  - Family **Trichiuridae** (10 genera, 46 species)
  - Family **Scombridae** (15 genera, 53 species)
- Suborder **Xiphioidi** (2 families)
  - Family **Xiphiidae** (1 genus, 1 species)
  - Family **Istiophoridae** (3 genera, 10 species)
- Suborder **Stromateoidei** (6 families)
  - Family **Amarsipidae** (1 genus, 1 species)
  - Family **Centrolophidae** (8 genera, 29 species)
  - Family **Nomeidae** (3 genera, 17 species)
  - Family **Ariommatidae** (1 genus, 8 species)
  - Family **Tetragonuridae** (1 genus, 3 species)
  - Family **Stromateidae** (3 genera, 15 species)
- Suborder **Anabantoidei** (3 families)
  - Family **Anabantidae** (4 genera, 31 species)

- Family **Osphronemidae** (14 genera, 126 species)
- Family **Helostomatidae** (1 genus, 1 species)
- Suborder **Channoidei** (1 family)
  - Family **Channidae** (2 genera, 32 species)
- Suborder **Caproidei** (1 family)
  - Family **Caproidae** (2 genera, 18 species)
- Order **Pleuronectiformes** (11 families)
  - Family **Psettodidae** (1 genus, 3 species)
  - Family **Citharidae** (4 genera, 6 species)
  - Family **Scophthalmidae** (4 genera, 9 species)
  - Family **Paralichthyidae** (14 genera, 109 species)
  - Family **Bothidae** (20 genera, 166 species)
  - Family **Achiropsettidae** (4 genera, 4 species)
  - Family **Pleuronectidae** (40 genera, 105 species)
  - Family **Samaridae** (3 genera, 26 species)
  - Family **Achiridae** (9 genera, 34 species)
  - Family **Soleidae** (32 genera, 178 species)
  - Family **Cynoglossidae** (3 genera, 143 species)
- Order **Tetraodontiformes** (10 families)
  - Family **Triacanthodidae** (11 genera, 23 species)
  - Family **Triacanthidae** (4 genera, 7 species)
  - Family **Balistidae** (12 genera, 41 species)
  - Family **Monacanthidae** (28 genera, 107 species)
  - Family **Aracanidae** (6 genera, 12 species)
  - Family **Ostraciidae** (8 genera, 28 species)
  - Family **Triodontidae** (1 genus, 1 species)
  - Family **Tetraodontidae** (26 genera, 189 species)
  - Family **Diodontidae** (7 genera, 18 species)
  - Family **Molidae** (3 genera, 4 species)
- Class **Sarcopterygii** (3 orders)
  - Order **Coelacanthiformes** (1 family)
    - Family **Latimeriidae** (1 genus, 2 species)
  - Order **Ceratodontiformes** (1 family)
    - Family **Neoceratodontidae** (1 genus, 1 species)
  - Order **Lepidosireniformes** (2 families)
    - Family **Lepidosirenidae** (1 genus, 1 species)
    - Family **Protopteridae** (1 genus, 4 species)

## Cited references

William N. Eschmeyer, Ronald Fricke, Jon D. Fong & Dennis A. Polack (2010) Marine fish diversity: history of knowledge and discovery (Pisces). *Zootaxa*, 2525, 19–50.

## Author names and addresses

William N. Eschmeyer & Jon D. Fong, California Academy of Sciences, San Francisco, California, U.S.A. 94118; weschmeyer@calacademy.org; JFong@calacademy.org